

Amateur Radio Newsline report number 1784 with a release date of Friday, October 21st, 2011 to follow in 5-4-3-2-1.

The following is a Q-S-T. A ham is killed in a mass murder at a beauty salon in Seal Beach, California; ham radio responds to massive flooding in Thailand; the C-E-P-T will propose a new 500 kHz band at WRC 2012 and radio helps to discover an invisible planet. Find out the details are on Amateur Radio Newsline(tm) report number 1784 coming your way right now.

(Billboard Cart Here)

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CRIME: HAM KILLED IN SEAL BEACH CA. MASS MURDER

A Seal Beach, California, ham was the innocent victim of a mass murderer. On Wednesday, October 12th, Scott Dekraai is alleged to have opened fire in a hair styling salon where his ex-wife was a stylist. She and eight others were killed in the rampage. One of those was David Caouette, N6DAC, who was sitting in his vehicle near-by as the gunman made his escape and shot him for no apparent reason. Amateur Radio Newsline's Joe Moell K00V has what is known so far.

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N6DAC probably didn't know Scott Dekraai. He was simply in the wrong place at the wrong time. The unfortunate 64-year-old father of three had stopped for lunch at a Seal Beach diner and was sitting in his Land Rover in the parking lot when Dekraai came out of the hair salon and opened fire on him.

David was a ham who loved off-roading in his Land Rover with a group of fellow hams. They remember him as a mellow guy who was always ready to blaze a trail and always ready to help others. In the Orange County Register, Ed Testa KI6OJV tells the story of how David stopped to help a fellow driver whose vehicle was disabled by a snapped Rod. N6DAC spent four hours figuring how to get that new friend back on the road.

A memorial and tribute to N6DAC took place on October 17 at the diner where he died, with many of his friends in attendance.

>From Orange County, California this is Joe Moell, K00V, for Amateur Radio Newsline.

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The 41-year-old Dekraai was scheduled to enter a plea on October 15th to eight counts of capital felony murder and one count of attempted murder. But the arraignment was postponed until November 29th after his lawyer asked for time to assemble a legal team. Prosecutors say they will seek the death penalty for Dekraai. Meantime some local Los

Angeles area news reports say that the alleged gunman may have suffered from Bi-Polar Disorder and could plead not guilty by reason of temporary insanity. (K00V, other published news reports)

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RADIO LAW: CEPT TO PROPOSE NEW 500 KHZ AMATEUR BAND AT WRC 2012

According to a bulletin issued by the Irish Radio Transmitting Society, a small allocation of about 15 kHz in parts of the 500 kHz band for the amateur radio service will be proposed at the next World Radiocommunications Conference to be held in 2012. This, as a proposal by the European Conference of Postal and Telecommunications Administrations, better known as the initials CRPT.

According to the Irish Radio Transmitting Society bulletin, this proposal has been made by a project team of about 50 representatives of European governments and other stakeholders in preparation for WRC12. The decision to proceed followed an invitation of the Federal Network Agency in Germany for a meeting that was held at the end of September in Mainz. The discussions there led to a compromise in the size of the amateur radio band, namely 480 kHz to 472 kHz, with a maximum effective radiated power of five watts. If approved, this allocation would be on a secondary basis to any and all current users. (Southgate)

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RESCUE RADIO: HAMS IN THAILAND RESPOND AS FLOODS HIT THAT NATION

Hams in Thailand are now first line emergency responders. This as massive flooding rages across parts of that nation. Amateur Radio Newsline's Norm Seeley, KI7UP, has the latest:

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The death toll from the most devastating flooding to hit Thailand in over 60 years has now risen to near 300. This, following monsoon rains that have swept across that nation since late July.

Amateur radio has been assisting with flood relief communications by helping victims in the affected areas. As we go to air, Thai hams are using the Radio Amateur Society of Thailand club station HS0AC and have also set up shop at a special flood relief centre at Bangkok's Don Mueang Airport operating as HS0AB. Take a listen:

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Actual Thai emergency communications audio.

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Locally, Thai hams are operating on VHF on 144.900, 144.9375 and 145.000 MHz. World-wide, Thai emergency flood relief operations are on 7.063 and 7.060 MHz in the 40 meter band. If you happen to hear what sounds to be emergency communications on those two frequencies it is best to remain clear of them.

So far, nearly three million people in 26 out of the country's 77 provinces are said to have been affected by the disaster that has caused serious damage to that country's agriculture and industries. Damage so far has been assessed at more than 20 billion baht or 6 million United States dollars. Meantime the city of Bangkok is bracing for a large amount of run-off water that is about to reach the it and which will coincide with seasonal high tides that will make it harder for the flood waters to flow out to sea. And with the volume of water and continuing rainfall, this emergency, and ham radio first response efforts are both likely to continue for days if not weeks to come.

For the Amateur Radio Newsline, Im Norm Seeley, KI7UP, following this story from Scottsdale, Arizona.

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A video showing activities at the special flood relief amateur radio station at Don Mueang Airport is on line at tinyurl.com/Thai-flood-hams. Also, United States hams are being asked to refer all inquiries from local or national media to ARRL Media and Public Relations Manager Allen Pitts, W1AGP. Allen is in contact with those handling relief operations in Thailand and will have the most accurate information. His e-mail is [w1agp \(at\) arrl \(dot\) org](mailto:w1agp@arrl.org). (HS0ZDX, VK3PC, RAST, ARRL)

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RESCUE RADIO: VK HAMS ASSIST IN HUNT FOR AIRCRAFT MISSING 30 YEARS

A group of amateur radio operators from Sydney, Australia, recently took part in a multi-agency search and rescue exercise in a remote area of New South Wales. This, to help in the continuing search for a small plane that is believed to have crashed some 30 years ago with its pilot and four passengers on board.

The single engine Cessna aircraft had the tail identification of VH-MDX. It had had taken off from Queensland for a flight to Sydney's Bankstown airport when its pilot identified as Michael Hutchins radioed that he was experiencing severe turbulence. Also that the plane had been hit by lightning and he could no longer determine its orientation. To make matters worse, the wings were icing up and despite his best efforts, the Cessna was losing altitude. The aircraft then disappeared from radar and all communications ceased a few minutes later.

For thirty years since the accident, teams of volunteers have returned to the area to walk and climb their way through every piece of unsearched landscape in the hope that somebody will discover a piece of wreckage or spot something that helps to end the riddle of VH-MDX. The regions that have been searched are marked off on a large map, so further unsearched areas can be checked the following year.

For the safety of the volunteer searchers, each of the six teams carried one vhf or uhf handheld radio and a portable 2-way High Frequency transceiver. Packed in a rainproof canvas box, the H-F sets

included a short wire antenna that would work using skywave or N-V-I-S propagation. This, to contact any of several radio command posts set up and manned by WICEN of New South Wales. WICEN is a volunteer organization of licensed Australian amateur radio operators who donate some of their time and expertise to emergency communications to benefit the community much the same way that ARES members do here in the United States. Other groups helping with the search this year included the Bushwalkers Wilderness Rescue Squad, the New South Wales Police Rescue Squad, the New South Wales Volunteer Rescue Association and several others.

At the time of its disappearance the Cessna's four passengers were New South Wales Police Inspector Ken Price, who was traveling with Noel Wildash, Phillip Pembroke and Rhett Bosler. Search aircraft sent to the general area could find no sign of wreckage, and there was no smoke or fire to guide them. Several intensive land searches were also launched but to date, no wreckage of the plane and the remains of its five occupants have been found. At airtime, the search is expected to resume sometime next year. (Adapted from walkietalkietwowayradios.com)

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BREAK 1

>From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the WA4B repeater serving Miami, Florida.

(5 sec pause here)

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HAM RADIO NUMBERS: 700,000 HAMS IN THE USA

Figures released by the American Radio Relay League say that the number of United States hams now stands at a record high number of 700,000. According to ARRL V-E-C Manager Maria Somma, AB1FM, the number of Technicians peaked in March 2011 at 342,572, while September 2011 saw both Generals and Extras each peak respectively in their number of license holders.

In issuing her report Somma noted that as new Technicians earn their amateur radio licenses, and current Technician licensees move on to General and Generals upgrade to Extra, this can cause up-and-down fluctuations for the totals. None the less, Somma says that for the first time, there are more than 700,000 radio amateurs in the United States. (ARRL)

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RADIO SCIENCE: LOW FREQUENCY GRANT ISSUED TO K4LCD AS WF2XXQ

The FCC has issued an Experimental License grant to Juan Granados, K4LCD, to operate on 130 kHz and 500 kHz with the callsign WF2XXQ. The permit is valid until October 1, 2016 and is tied to the ongoing Very Low Frequency Amateur Radio Experiment. More is on-line at

tinyurl.com/4235u7s (FCC)

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ENFORCEMENT: ANOTHER UNLICENSED FLORIDA BROADCASTER DINGED WITH \$10000 NAL

Posting information about his unlicensed station on the Internet could cost its alleged owner and operator \$10,000. This after the FCC issues a Notice of Apparent Liability in that amount to one Neal Davis who the regulatory agency says operated such a transmitter from an a commercial property in the city of Ft. Lauderdale.

The case goes back to earlier this year. On January 21st, March 8th and March 10th agents from the FCC's Enforcement Bureau's Miami Office T-hunted the source of radio transmissions on 96.1 MHz to a location in Fort Lauderdale, Florida. While monitoring the station on March 10th, agents heard a male voice identify himself as "Shawty Pimp." On the same date, the Fort Lauderdale Police Department executed a search warrant at the commercial property and found Mr. Davis operating what it described as Disc Jockey equipment.

After the location was secured, agents from the Miami Office inspected the premises and found an unlicensed radio transmitter displaying 96.10 MHz. They also observed a Facebook page for "Nintysixonefm Realsideradio" on a laptop and an envelope addressed to Neal Davis near the equipment.

An agent from the Miami Office subsequently found information on the Internet advertising 96.1 FM, including a phone number that the FCC office previously heard broadcast on 96.1 MHz and information for a Disk Jockey that goes by "Djshawtypimp." Mr. Davis was identified by the agents as D J "Shawty Pimp" by comparing a photograph found on-line to that on Davis's Florida driver's license.

On October 17th, the FCC issued the \$10,000 NAL to Neal Davis based on the information and documentation that it discovered during its investigation. Davis was given the customary 30 days to pay the proposed fine or to file an appeal. (FCC)

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ENFORCEMENT: FCC ORDERS DETROIT FM TRANSLATOR OFF THE AIR

The FCC has ordered Radio Power, Inc. to take translator W284BQ in Detroit off the air. This due to unresolved interference to co-channel WIOT(FM), in Toledo, Ohio.

WIOT licensee Citicasters identified nearly 30 complaints from listeners within the station's protected contour describing difficulties in receiving the station in their cars and homes. In July, the FCC gave Radio Power 30 days to resolve all the interference complaints or suspend operation. Radio Power did try to resolve the interference, including modifying the antenna to suppress radiation to the south.

Nevada-based Radio Power, Inc. offered those listeners a smartphone with an iHeartRadio application installed, enabling the listeners to receive WIOT programming over the Internet. However the phones require a paid data plan to run iHeartRadio which WIOT considered to make this an unworkable solution and did not solve the interference.

For its part Radio Power disagreed. It argued that the use of a smartphone improves the reception of WIOT and eliminates the interference.

But it was the FCC that had the final word. In its order released on October 17th, the regulatory agency said that providing a smartphone to complaining listeners does not solve over the air interference. Also that Radio Power's attempted remedy does not fulfill its obligation to suspend operations until the interference has been eliminated.

The FCC's order to take W284BQ off the air is effective immediately. More is on-line at tinyurl.com/translator-interference-fcc. (RW, FCC)

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RADIO SAFETY: LARGE FINE PROPOSED IN INDIANA TOWER ACCIDENT

The Occupational Safety and Health Administration has proposed a \$91,500 fine for tower company ERI. This for alleged safety violations in connection with two tower related fatalities.

As Indiana's Lafayette Journal and Courier reported, two men fell some 340 feet and died in April while helping to build a 500-foot tower for the WASK Radio Group. Now, in its initial findings, the Occupational Safety and Health Administration says the men were exposed to fall hazards while riding the pole connected to the jump line of the gin pole. A gin pole is a vertical assembly used in the construction of towers to assist in raising and lowering such a structure.

The Occupational Safety and Health Administration also claims the two workers were not provided with adequate fall protection when accessing the man-basket and that load limits were not properly marked on some of the crew's equipment.

In reply, ERI President Tom Silliman said that some of OSHA's initial findings were incorrect and claims that the report is being revised. He added he could not comment until final determinations have been made.

According to the initial findings, the proposed fines can be appealed. (B&C)

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WORLDBEAT: US TESTS TO BE HELD IN COSTA RICA OCTOBER 28

An ARRL Volunteer Examination Coordinator exam team will be holding an examination session in Costa Rica for United States amateur radio licenses. The tests will be administered on Friday, October 28th at 9:00 a.m. local time in the city of La Guacima, Alajuela.

The fee for the exam is \$14, which is the same as on U.S. soil. It entitles the applicant to take exams and receive credit for as many test elements as he or she can pass that day. This includes those elements required for higher grades of license.

This may be the last opportunity to take a United States exam this year anywhere in Central America. Those interested should contact Carlos Diez, TI5KD, via e-mail to ti5kd10 (at) gmail (dot) com as soon as possible to make arrangements and to reserve a seat. (Via e-mail)

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WORLD BEAT: AMATEUR RADIO FEATURED AT IAC2011

Amateur Radio was featured in several papers presented at the 62nd International Astronautical Congress held in Cape Town South Africa. This, for the first time since the formation of the International Astronautical Federation way back in 1951.

Several papers highlighted Amateur Radio involvement in satellites and in the search for extraterrestrial intelligence. A paper by Dr. Jakobus van Zyl and Johann Lochner, ZE6CBC, both engineers at SunSpace, covered a global geographical survey of received signal's strength in the VHF band.

Another report was on the data collected by the South African SumbandilaSat that had provided useful information for selecting future ground station locations for minimum interference. The study also gives an indication of frequencies to use for command and telemetry communication at existing ground stations. (SARL)

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NAMES IN THE NEWS: NR6AV NAMED 2011 DISTRICT COMMUNICATIONS OFFICER OF THE YEAR

Some names in the news. First our congratulations to Ray Avesian, NR6AV, who has been named as the 2011 District Communications Officer of the Year at the Los Angeles County Disaster Communications Service Semi-Annual Meeting. In selecting him for the honor it was noted that Avesian has worked diligently to bring the Disaster Communications Service program at Temple Station District 5 closer, and using his experience as a successful coach, to build a team of dedicated amateur radio operators.

The Temple Station Disaster Communications Service District 5 serves a very large portion of Southern California's San Gabriel Valley. This includes the communities of Temple City, Rosemead, Bradbury, Duarte, South El Monte, and the unincorporated areas of Monrovia, Arcadia, South San Gabriel, East Pasadena.

The Meeting honoring NR6AV was held at the Los Angeles County Sheriff's Department Sherman Block Headquarters Building in Monterey Park, California. (KE6VRL)

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WITH NEWSLINE: FACEBOOK AND YAHOOGROUPS - WE ARE THERE FOR YOU

And while we do not talk about it much on these newscasts, as we go to air this week the Amateur Radio Page on Facebook has garnered some 717 friends. And we just want to pause for a moment to thank James Pastorfield, KB7TBT, of Lavonia, Georgia, who stepped up just after we created the page and offered to maintain us for us.

Like everyone else in our Amateur Radio Newsline family, James is a volunteer. In this case one of those very special people that makes it possible for us to have an active presence on one very special aspect of social networking on the World-Wide-Web.

If you are on Facebook but are not a follower of the Amateur Radio Newsline page, we invite you to join us. Just use the search bar on Facebook to locate us and join in. We would love to have you with us over there.

Also, for those wanting home computer delivery of the text version of these weekly newscasts, we invite you once again to join the Amateur Radio Newsline group on Yahoogroups. You can also use the site to find archived scripts going all the way back to the year 2001. Just use the standard Yahoogroups sign up procedure to obtain a yahoogroups account then locate and join the group called ARNewsline.

Either way, we hope to continue to serve you in cyberspace as well as on the air. (ARNewsline(tm))

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BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

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CHANGING OF THE GUARD: TELECOMMUNICATIONS LEADER ROBERT GALVIN OF MOTOROLA - SK

One of the greatest leaders in the world of telecommunications has left the scene. This with the passing of Robert Galvin, the man generally credited as putting the name Motorola on the map. Chris Boone, WB5ITT, has the story of this industry giant who affected lives world-wide:

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Robert W. Galvin, who took the reins of Motorola from his father and built a family-run business that pioneered Depression era car radios and wartime walkie-talkies into a global maker of color television sets, cellphones and other ubiquities of the electronic age has died.

>From his days as a stockroom apprentice in 1940 to the midlife pressures of the executive suite and his retirement-in-name-only as chairman in 1990, Mr. Galvin spent his working life with Motorola, leaving it only for military service in World War II. By the time he stepped down, he had transformed the company from a moderately successful postwar enterprise into a high-tech international giant in a fast-changing, highly competitive business.

In the three decades after Mr. Galvin took control in the late 1950s, annual sales leaped to \$10.8 billion from \$290 million. Motorola, based in Schaumburg, Ill., built factories, hired thousands of workers, expanded its products and set high standards for innovation.

Galvin was the force behind a company that forged trends in radio, television and integrated circuits for computers and other products.

Robert William Galvin was born in Marshfield, Wis., on Oct. 9, 1922, the only child of Paul and Lillian Guinan Galvin. He grew up in Chicago, where his father and uncle had founded the Galvin Manufacturing Corporation in 1928. The company had begun by making battery eliminators. Devices to plug radios into electrical systems in homes and cars. Radios were originally battery-operated. By 1940, Galvin Manufacturing had evolved into America's premier maker of car radios and two-way radios, called Handie-Talkies which became a Motorola trademark. After World War 2 broke out they became walkie-talkies, and the Army bought \$10 million worth. Galvin also prospered in government contracts for radar systems.

In 1947, the company changed its name to Motorola, a fusion of motor and Victrola. It also set up a profit-sharing plan for employees - one of the first in the country to do so. During the Korean War, Motorola made mobile radio equipment and began to develop microwave-relay communications systems.

Mr. Galvin became president in 1956 and took over day-to-day operations from his father, who was chairman and chief executive until his death in 1959. Robert succeeded him in both posts, and in the 1960s embarked on new paths: guided missile designs, space communications, radios for ships and aircraft, components and integrated circuits for TV sets, car ignitions and hundreds of other products. Motorola produced the first hand-held mobile phone in 1973 and later dominated the cellphone hardware business.

Mr. Galvin gave up Motorola's chairmanship in 1990, but continued for more than a decade to serve on its board and advise his son, Christopher, who succeeded him in 1997.

At airtime, it was not known whether Robert Galvin had been an amateur radio operator. According to both the QRZ and FCC databases, there was no issued amateur radio license for Robert W. Galvin who was truly one of the pioneers of two-way and telecommunications products throughout the world.

Reporting from sunny but dry South-East Texas in Beaumont, I'm Chris Boone, WB5ITT, for the Amateur Radio Newsline.

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As an aside, it should be noted that reporter Chris Boone, WB5ITT, is also the oldest Newsline bulletin station in Texas and also moderates the largest remail list dedicated to commercial Land Mobile Radio on the Internet. LMR at Yahoogroups.com ..normal subscribing commands for yahoo groups apply or they can find the list at groups.yahoo.com/group/LMR. (WB5ITT, other published news reports)

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WORLDBEAT: YAHOOGROUP FORMED TO DISCUSS THE RSGB'S FUTURE

Concern over the Radio Society of Great Britain's accountability and the way it's been conducting itself recently appears to have prompted a new discussion group on Yahoo Groups from White Rose Radio. On its opening page the group says that the site is open to all radio amateurs and interested parties in relation to the RSGB proposals on its proposed reorganization of its governing body.

The White Rose Radio group claims that its purpose is to maintain the RSGB as a democratic, accountable membership organization. It also suggests that the RSGB is in reality a business whose singular purpose is to defend and protect the privileges enjoyed by radio amateurs within the UK.

Recently, the RSGB announced plans to hold what it called an Extraordinary Membership Meeting to discuss and vote on changes that would effectively remove most of its current Board of Directors and replace them with experts in various fields of corporate governance. At the same time its looking at various methods to enter a period of what might be best termed as fiscal economic measures to help it weather the current world economic climate.

You can follow the discussion on line by joining the new discussion group at groups.yahoo.com/group/whiteroseradiouk. (Southgate)

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HAM RADIO IN SPACE: UOSAT 1 LIFE CELEBRATED

Surrey Satellite Technology Limited has celebrated the 30th anniversary of the orbiting of Surrey's first satellite, UOSAT-1. Launched into orbit on October 6th 1981, UOSAT-1 was designed and built by a team from the University of Surrey led by its founder Sir Martin Sweeting, G3YJO.

UOSAT-1 was also known as UOSAT-OSCAR 9. It was a scientific and educational Low-Earth Orbit satellite containing many experiments and beacons but no amateur transponders. The satellite remained fully operational until it re-entered October 13, 1989 from a decaying orbit after nine years of service on-orbit. (ANS)

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BREAK 3

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

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ON THE AIR: CELEBRATING THE XIV PAN AMERICAN GAMES

Members of Mexico's Club de Radio Experimentadores de Occidente in conjunction with the Federacin Mexicana de Radio Experimentadores will activate special event station 4C1JPG between now and October 30th. This operation is to the 2011 and XVI Pan American Games in Guadalajara. Activity will be on 160 through 6 meters using CW, SSB, RTTY, PSK and the Satellites. QSL via Logbook of the World, by the bureau or direct to XE1GZU. (Via e-mail)

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DX

In DX, listen out for a team of German and Polish operators to be signing 3XY1D from Guinea between October 18th and November 1st. Operation will be on 160 through 6 meters using CW, SSB and the Digital modes. One station will be exclusively dedicated to RTTY, PSK31 and SSTV. QSL via DL7DF, direct or via the bureau.

F5HRY will be active stroke FY from French Guiana during the CQ World Wide DX SSB Contest on October 29th and the 30th. This, as a Single Operator Single Band 10 meter only entry. QSL as directed on the air.

LA5UF will be on the air from Nauru as C21UF through October 24th and Easter Island as CE0Y/LA5UF between November 3rd and the 11th. Activity from both locations will be on CW and PSK31. QSL only via his home callsign.

Lastly, F6BLP will be active from Senegal as 6W7SK between January 20th and February 3rd, 2012. His operation will be holiday style operating mainly CW. Logs will be uploaded to Logbook of the World and to eQSL. Send your QSL to F6BLP, direct or via the bureau.

(Above from various DX news sources)

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THAT FINAL ITEM: NASA KEPLER SPACE PROBE DISCOVERS INVISIBLE PLANET

An invisible planet, which has not yet been seen by eye has been discovered by scientists using NASA's Kepler spacecraft. The discovery was possible thanks to a companion of the unseen planet. Bill

Pasternak, WA6ITF, is in the newsroom with more:

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According to astronomers, the planet named Kepler-19c really cannot be seen, but it makes itself known by the way it influences other planets through its gravitational force.

The invisible planet has tugged at its partner the visible Kepler-19b planet, slowing it down and then speeding it up in its transition.

The Kepler space probe locates planets by looking for a star that dims slightly as a planet transits the star, passing across the star's face from the space probes point of view. Transits give one crucial piece of information regarding the planet's physical size. The greater the dip in light, the larger the planet relative to its star. However, the planet and star must line up exactly for Kepler to see a transit.

The visible Kepler-19b has a diameter of 18,000 miles, making it slightly more than twice the size of Earth. It reportedly transits its star every 9 days and 7 hours. It orbits the star at a distance of 8.4 million miles, where it is heated to a temperature of about 900 degrees Fahrenheit.

The invisible planet named Kepler-19c has multiple personalities that are consistent with the data found according to Daniel Fabrycky of the University of California at Santa Cruz. Fabrycky says that it could be a rocky planet on a circular 5 day orbit, or a gas-giant planet on an oblong 100 day orbit.

Currently the astronomers know very little about the new planets. The Kepler spacecraft will continue to monitor and radio information back to Earth regarding the twin Kepler-19's throughout its mission. This in hope of gathering more information about the invisible Kepler-19c.

For the Amateur Radio Newsline, I'm Bill Pasatarnak, WA6ITF, quite visible in the Newsroom in the City of Angels.

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It should be noted that years ago astronomers discovered the planet Neptune in the same way. While tracking Uranus they noticed that its orbit didn't match predictions. That led to the later proven theory that a more distant planet might be nudging Uranus and calculated its expected location. (IB Times, Space.com)

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NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's WIA News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is newsline (at) arnewsline (dot) org. More information is available at Amateur Radio Newsline's(tm) only official website located at www.arnewsline.org.

You can also write to us or support us at Amateur Radio Newsline(tm),
28197 Robin Avenue, Santa Clarita California, 91350

For now, with Bill Pasternak, WA6ITF, at the editors desk, I'm Jim
Davis, W2JKD, in sunny Vero Beach, Florida, saying 73 and we thank you
for listening.

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